Sr	Name of	Qty.	Sp	ecifications
No.	Equipment/Item		Metal Machine	
1	Flexshaft Motors with kit	2	1. Series SR Motor:	The 1/6 HP, ball bearing, hang- up style speeds up to 18,000 RPM
			2. C.FCT Speed Control:	Foot operated speed control
			3. H.30 Handpiece:	3-jaw, geared chuck with a 0- 5/32" capacity.
			4. Accessory Kit: .	Assortment with 3/32" and 1/8" shank accessories It must includes Sanding Bands and Discs, V Stones, CeramCut Blue Stones, steel cutters and burs, rubber bonded abrasives, mounted abrasive points, wire and bristle brushes, polishing compound.
2	Mini Lathe	1	Power of Motor:	550W DC Single Phase
			Variable Speed:	50-2500PRM
			Swing Over Bed:	180-185 mm
			Chuck Diameter:	80-90 mm
			Centers Distance:	300-350 mm
			Spindle Bore:	21mm
			Inch Thread:	12-52 T.P.I
			Metric Thread:	0.5-2.5mm
			Net Weight:	40kg
3	Pipe Notcher	1	Main Motor HP	2 HP
			Coolant Motor	Yes
			Output RPM	320-1700 RPM
			Total Weight	+45 - 9045 degree
			Dimensions (Floor)	60mm
			Notching Angle	55 x 55 mm
			Max Round Pipe	25mm
			Max Square Pipe	5mm
			Max Notch Radios	2 HP
			Minimum Notch Radios	Yes
4	Cold Welding Machine	1	Power Output	1200w
			Frequency	50-50 Hz
			Electride Dia.	Dia. 1.0-3.2 mm
			Input Voltage	AC220V
		1	Voltage Range	10-100V

Annexure II – Technical Details & Specifications

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			Output Percentage	10-100 %
			Ergonomics equipment	
5	Digital Lux Meter	2	Contact Measurement	50-19999RPM ±(0.03%+2)
			Measuring Distance	N/A
			Auto Power Off	305
			Data Logging	100 groups
			MAX/MIN/AVG Functions	Yes
			m/min m/sec ft/min ft/Sec in/min unit selection	Yes
			Data Hold	Yes
			Display Back light	Yes
			Low Battery indication	Yes
			Power Supply	4x1.5AAA Battery(Not Included)
			Size	193x60x29M
6	Goniometers set	2	Material	High Carbon Steel + Plastic
			Length (Approx)	200mm/7.87inch
			Measuring range	0-360 Degree
			High Resolution: 0.1 Degree	0.1 Degree
			Accuracy: +-0.3 Degree	
			Battery:	3V CR2032(Not Included)
7	Eye tracker	1	Eye tracking Wearable Unit	
			Eye tracking technique	Corneal reflection, dark pupil, stereo geometry
			Binocular eye tracking	Yes
			Sampling rate	50 Hz to 100 Hz
			Calibration procedure	One point
			Parallax compensation tool	Automatic
			Slippage compensation	Yes, 3D eye tracking mode
			He	ad unit
			Material	Grilamid plastic, stainless steel, optical grade plastic lenses
			Nose pads	Grilamid plastic, with clip on attachments
			Scene camera format and resolution	1920 x 1080 @25 fps
			Scene camera, video format	H.264
			Scene camera, field of view (diagonal)	106 deg. 16:9 format
			Scene camera, field of view (horizontal and vertical)	95 deg. horizontal / 63 deg. vertical
			Weight	76.5 grams including cable
			Frame dimensions	153 ×168 ×51 mm
			Cable length	1200 mm

			Audio	16 bit mono, integrated microphone
			Design characteristics	Light-weight and discreet
			Number of eye tracking sensors	4 sensors (2 per eye)
			Fixed geometry	Yes
			Sensors	Gyroscope, Accelerometer, Magnetometer: ST™ LSM9DS1 (sampled at 100 Hz)
			Record	ling unit
			Battery recording time	105 min.
			Battery type	Rechargeable 18650 Li-ion, Capacity: 3 400 mAh
			Storage media	SD (SDXC, SDHC) card
			Connectors	Micro USB, RJ45 (Ethernet), 3.5 mm jack (sync port), head unit connector
			Dimensions (height x width x depth)	130 x 85 x 27 mm
			Weight	312 grams
			Sync Port	3.5 mm jack (TTL signal)
		v	Vood Working Machine	
8	Belt sander table based	1	Power Input	: 375 W
			No Load Speed	1400 rpm Disc, 275 rpm Sanding Belt
			Frequency	50Hz
			Includes	Angle guide, Tool rest, 2 Sanding belts (P80 & P120), Sanding discs (P80 & P120), Hex key, Wrench
			Voltage	230 V
			Diameter sanding disc	150 mm
			Dimension (LxWxH)	51x30x26 Cm
			Belt Size	915 x 100 mm
9	Router Table	1	Amperage	15
			Bulk	FALSE
			Depth	15-7/8"
			Dust Collection	Yes
			Height	14.5"
			Length	15.875"
			Max. Fence Opening	3-3/16"
			Max. Throat Opening	3-5/8"
			Weight	35.0lb
			Width	25.5"
			Working Length	25-1/2"
10	Table saw	1	Amperage	15

		1	Arbor	5/8"
			Arbor Size	5/8"
			Bevel Angle Range	-2° to 47°
			Blade Diameter	10
			Dado Capacity	1/2"
			Dimensions	22.5" x 22.5" x 13"
			Dust Blower	No
			Height	13.5"
			Length	21.75"
			Max. Bevel Capacity (°)	47
			Max. Depth of Cut at 45 Deg.	2-1/4"
			Max. Depth of Cut at 90 Deg.	3-1/8"
			No Load RPM	5000
			Rating	120 V
			Ripping Capacity-Left	7-3/4"
			Ripping Capacity-Right	18"
			Table Top Dimensions	22.5" W x 20" D
			Voltage	120V
			Weight	52.0lb
			Weight of Saw (lbs.)	52
			Width	22.5"
			Measuring Tools	
11	Marking Table	1	Surface Finish	CNC Machined
11				
			Types	Hole Type & T-slot Type
			Material	Cast Iron and Granite
			Size	1000x1000mm(LxW) , Height - 1000
12	Surface Gauge	5	Height	300mm
			Base Length	80 mm
			Width	65 mm
13	Depth Gauges	5	Range:	0 - 150 mm
			Maximum Permissible Error E MPE:	±0,02 mm
			Base (W x T):	100 x 6 mm
			Mass:	207 g
			Max. response speed:	Unlimited
			Display:	LCD, character height 9 mm (150/200/300 mm), 10 mm (>300 mm)
			Delivered:	Including box, 1 SR-44 battery
			ORIGIN (ABS-Zero):	Yes
			ON/OFF:	Yes
			Low voltage alarm:	Yes
I	i	1	· -	1

			Data output:	Yes
			ZERO/ABS:	Yes
			Digital/Analog:	Digital
			Battery life:	Approx. 5 years
			Display:	LCD, Character Height 9 mm
			Inch-Metric:	Metric
14	Height Gauges	3	Range:	0-12"
			Graduation:	.001''/0.02mm
			Accuracy:	A plus or minus .002''
			Scale adjustment:	.6"
			Fine feed:	16"
			height:	525mm
		M	etal workshop Hand Tools	
15	Jacks	5	Capacity	4T
			MINIMUM HEIGHT	180
			LIFT	110
			ADJUSTMENT HEIGHT	50
			MAXIMUM HEIGHT	340
16	16 Screw and tap extractors		High carbon steel forging,Over strength,Strong toughness,Stre	ong and wear resistant
			pipe broken wire, etc.	al of broken screws,Slip screw,Water
			6 different sizes of screw extra	actors
17	Bolt and cable cutters	5	Size - 8 inch bolt	
			Cutter Forged and hardened a	alloy steel jaws
			Compound cutting action requ	ires less effort
18	Glass Cutters	5	Carbide alloy cutting wheel, h	igh hardness and sharp cutting,
			more smooth cutting, can cut	5mm-15mm thickness glass
19	Pipe cutting and threading tools	5	5 popular interchangeable sized cutting dies, sizes include: 3/8, 1/2, 3/4,1 and 1-1/4	
			Ratchet head with two-piece handle	
			Reversing knob	
20	Taps and dies	10	Hand Tap (9 set)	Pitch - 0.5mm to 1.75 mm
			hand Die (9 set)	Pitch - 0.5mm to 1.75 mm
21	Precision Reamers	10	Diameter	4 mm to 12 mm
22	Pullers	5	Capacity	5 Ton
			No of Jaw	3
			Jaws Reach	4''
			Jaw Spread	5" to 5"

24V Block5Length (inch/mm) :24V Block5Length (inch/mm) :Width (inch/mm) :Width (inch/mm) :Height (inch/mm) :Width of small VEE (inch/mm) :Width of small VEE (inch/mm) :Width of Large VEE (inch/mm) :25Carving & Edge tool set526Wood lathe turning tool set526Wood lathe turning tool set5	Chrome Finish 2.3/4"/70mm 2.1/2"/63mm 1.3/4"/45mm 1"/25mm 1.3/16"/30mm 1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge 1"(25.5mm)skew chisel
Width (inch/mm) : Width (inch/mm) : Height (inch/mm) : Width of small VEE (inch/mm) : Width of Large VEE (inch/mm) : Clamping Capacity (inch/mm) : 25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	2.1/2"/63mm 1.3/4"/45mm 1"/25mm 1.3/16"/30mm 1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
Height (inch/mm) : Width of small VEE (inch/mm) : Width of Large VEE (inch/mm) : Clamping Capacity (inch/mm) : 25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	1.3/4"/45mm 1"/25mm 1.3/16"/30mm 1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
Width of small VEE (inch/mm) : Width of Large VEE (inch/mm) : Clamping Capacity (inch/mm) : 25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	1"/25mm 1.3/16"/30mm 1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
Width of Large VEE (inch/mm) : Clamping Capacity (inch/mm) : 25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	1.3/16"/30mm 1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	1.1/2"/38mm 415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
25 Carving & Edge tool set 5 Includes Knives, Gouges and Chisels of Different Sizes and Shapes	415 mm 160 mm 1" (25.4mm) roughing gouge 7/8" (22mm) roughing gouge
Chisels of Different Sizes and Shapes	160 mm 1"(25.4mm)roughing gouge 7/8"(22mm)roughing gouge
26 Wood lathe turning tool set 5 Overall length:	160 mm 1"(25.4mm)roughing gouge 7/8"(22mm)roughing gouge
overall engli.	1"(25.4mm) roughing gouge 7/8"(22mm) roughing gouge
Length of blade:	7/8"(22mm)roughing gouge
Woodworking Lathe Chisel Set:	5/8"(16mm)skew chisel 5/8"shear scraper 3/6" parting tool 5/8" round nose scraper 1/2" spindle gouge
27 Woodworking Knives set 5 Standard	
28 Router Bit set 5 Core Box Bit	Dia-12.7mm R-6.3mm
Cove Bit	Dia-22mm R-6.3mm
14 Degree Dovetail Bit	Dia-12.7mm
45 Degree Chamfer Bit	Dia- 32mm
Clamping Tools	
29 C Clamps 8 Inches 10 Size	10 Inch
30 C Clamps 2 Inches 10 Size	2 inch
31 F clamps 12 inches 5 12-Inch "F" clamp	
For general purpose woodworking	
Features a quick action sliding adjustment	
Protective pads on each jaw	
32 F clamps 18 inches 5 18-Inch "F" clamp	
For general purpose woodworking	
Features a quick action sliding adjustment	
Protective pads on each jaw	

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33	F clamps 24 inches	5	24-Inch "F" clamp	
			For general purpose woodworking	
			Features a quick action sliding adjustment	
			Protective pads on each jaw	
34	Bar Clamps (parallel Jaw)	5	Dimensions LxWxH	84 x 23.5 x 6 Centimeters
35	Spring Clamps	5	plastic and spring steel	
			Clamps Heavy DutyClamp Fo	rce : about 15N force
			Rounded handle for comfortable	e grip
36	Pipe Clamp	5	Clamp Fixture for 1/2 Inch Pipe	
37	Wood working vice	5	JAW WIDTH -	150 MM
			JAW OPENING -	110 MM
			MATERIAL -	CAST IRON
			VICE LENGTH -	23 CM
			VICE WIDTH -	15 CM
			VICE HIGHT -	9 CM
	<u> </u>		Ergonomic Tools	1
			The HandGRIP for the following	Maximum Grip, 5 Position Grip,
			tests	Rapid Exchange Grip.
	Hand sensor kit (TPS)	1	Selectable units of measure:	pounds (lbs.), Newtons (N), or kilogram-force (kgf)
			Low and high threshold settings:	Low – 0.8 lb. to 200 lbs. in 0.1 lb. increments and High – 3 lbs. to 200 lbs. in 0.1 lb. increments
38			Measurement accuracy	within 1% Bluetooth enabled for wireless use with either clinical or data collection research software.
			Battery	Uses 1/2 AA 3.7 volt rechargeable lithium ion battery.
		Cerami	cs Machines and Equipment's	
			Diameter of Propeller	400 mm
39	Blunger	1	RPM:	150-200
			Vol:	10 Litre
			Power:	0.5-01.0 KW
40	Rapid Glaze Grinder (500 ml)	1	DRIVE:	DIRECT MOTOR MOTOR 0.25 HP 960 RPM, 3-PH, 415V, 50Hz
			WITH PORCELAIN POT	
	1	•		

			WITH LID COVER PP WITH	
				1000ML
			M/C CONSTRUCTION HEAVY	M.S. PLATE
			HEAVY SHAFT WITH SEFTY JALLY COVER	
			WITH ELECTRONIC DIGITAL	0-999 MIN AUTO STOP & ON-
			TIMER SWITCH	OFF SWITCH WITH 2MTR WIRE
			MS ENGLE FRAME STAND SIZE	4 FT X 2.5 FT
			WITH JIGGER & JOLLY SYSTEM FITTED ON TABLE	
41	Jigger-Jolley	1	WITH PRIMERY SCRAPPER TOOL	
			DRIVE:	1/2 HP MOTOR, 1440 RPM, 3- PHASE,415 V,50HZ
			Motor	400W(1/2 PS/HP) 230V 50Hz 1- phase
			Speed control	Electric remote control
42	Potter's Wheel	2	Wheelhead speed	0-250 rpm
			Wheelhead size	350mm Light alloy casting
			Dimensions	600×702×580mm
			Size	12 " x 24 "
			Solid and stable construction.	12 X 24
			Simple and easy adjustment of slab thickness, by turning a single,	
		1	centrally attached, smoothly and	
			precisely moving adjustment handle.	
43	Slab Roller			
43	Slab Roller		Two Rollers Working System	
			given evenly distributes pressures	
			on slab to reduce warping.	
			Gear Drive System (No Belt or	
			Pully).	
			Rollers and other mechanic parts	
			are galvanized for corrosion protection.	
		1	Ceramics Equipment's	1
			Type: Airless Sprayer	Airless Sprayer
44	Aerosol Spray Gun	1	Reservoir Capacity:	0 L
••		-	Flow Rate:	1 l/min
		ļ	Spray Tip:	SPRAY
45	Painter's wheel	6	Diameter :	8 inch
	(D: 8 inch, H: 8 inch)	ļ -	Height :	8 inch
46	Electronic Weight Machine	1	Weighing Capacity:	30kg
	for 30 kg		Pan Size:	250*300 mm
47	Analog Weighing Machine	1	Weighing Capacity:	30 kg
48	Mortal Pestle	4	Material:	GLAZED Poreclain
10		-	Diameter:	8 to 10 inch
			Ceramics Tools	

49	Hole Cutter set	2	This 12-piece brass hole cutter tool set is ideal for creating different sizes of holes in clay pieces	
50	Chisel rods	4	Length	10 inch
F 1	Wooden Bat for RK55	12	Diameter	12 inch
51	Wheel		Material	water proof MDF bat
50	Dipping Tongs	4	Length	32cm/12.6inch
52			Width	10.5cm/4.1inch

The detailed technical specifications as given in Annexure II for the equipment and accessories are indicative major requirements. All necessary/required components to configure above must be included and mentioned in the bid to install equipment and accessories as per NID MP requirements.